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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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imagery analysis report

**Deployment of Polish Highgate Probable
Low-Altitude Target Acquisition Radar**

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DEPLOYMENT OF POLISH HIGHGATE PROBABLE LOW-ALTITUDE TARGET ACQUISITION RADAR

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1. [] A new Polish probable low-altitude detection radar,¹ referred to by Department of Defense attaches as the Highgate, has been detected at 19 Polish air warning (AW) sites during 1979 (Figure 1 and Table 1). The Highgate radar, developed at Warszawa Radar Works T-1 [] presumably enhances Warsaw Pact low-altitude AW capabilities.

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2. [] The Highgate radar is mounted on the rear of a Czechoslovakian-made Tatra-138 flatbed truck (Figure 2). When field deployed, the radar is connected by cable to two associated van trucks and a probable generator (Figure 3). The radar mount is telescopic and has been identified in both the retracted (Figures 2 and 3) and extended modes (Figure 4).

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3. [] The first satellite-imagery identification of a field-deployed Highgate radar was made from imagery [] of Goleniow Airfield AW Radar Facility [] Preliminary analysis indicates that the new radar is augmenting rather than replacing existing systems. Deployment of the Highgate radar proceeded rapidly in 1979. Approximately 25 percent of the 76 active Soviet or Polish AW sites in Poland now have Highgate radars.

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4. [] A variant of the Highgate radar is probably undergoing tests at Warszawa Radar Works T-1. Attache photography [] shows a Highgate radar with a clipped lower screen.³ The significance of this modification is not clear.

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REFERENCES

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DOCUMENTS

1. FTD. *Weekly Aerospace System Report 21-79*, 25 May 79 (S [])

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3. DoD [] *Radar Factory*, 6 Dec 79 (CONFIDENTIAL)

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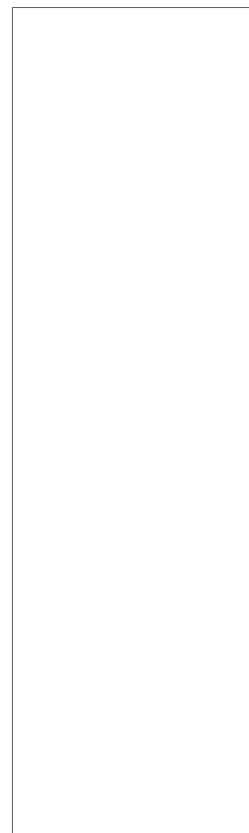
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Table 1.
Locations of Highgate Radars in Poland
(Keyed to Figure 1)



Item	Facility
1	Bialobrzegi AW Radar Fac
2	Blotnica AW Radar Fac
3	Debrzno AW Radar Fac
4	Gdynia Afl'd GCI Radar Fac
5	Goleniow Afl'd AW Radar Fac
6	Koscuczyna AW Radar Fac
7	Krepczewo AW Radar Fac TALL KING
8	Krosno Odrzanskie AW Radar Fac Tk
9	Malbork Afl'd GCI Radar Fac
10	Malbork AW Radar Fac
11	Modlin Afl'd AW Radar Fac
12	Niemce AW Radar Fac
13	Ostrow Wielkopolski AW Radar Fac
14	Powidz AW Radar Fac
15	Poznan Babki GCI Radar TALL KING
16	Przybyszew AW Radar Fac
17	Warszawa-Bemowo Afl'd GCI Rdr TALL KING
18	Wielun AW Radar Fac
19	Wladyslawowo AW Radar Fac TALL KING

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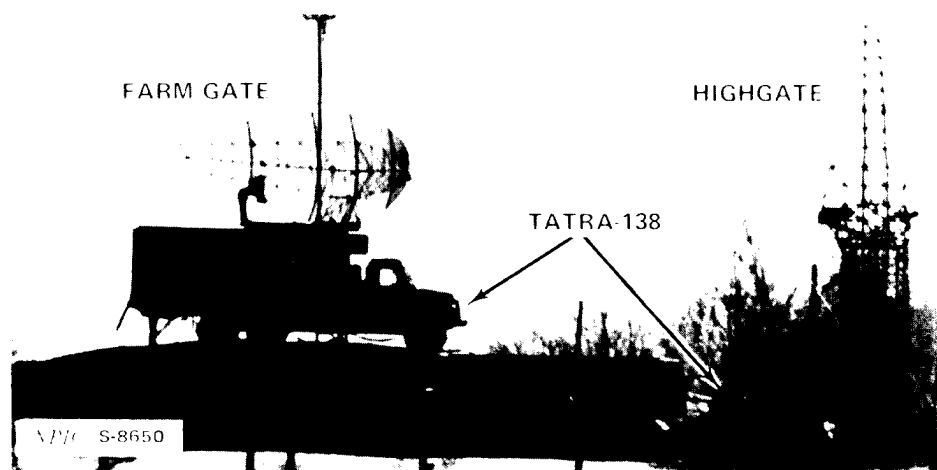


FIGURE 2. HIGHGATE RADAR, MALBORK AW RADAR FACILITY

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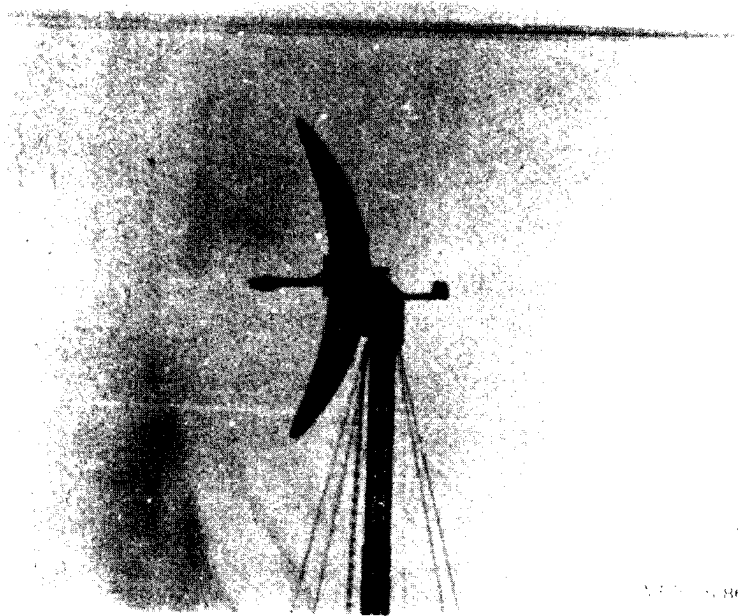


FIGURE 4. EXTENDED HIGHGATE RADAR, BLOTNICA AW RADAR FACILITY

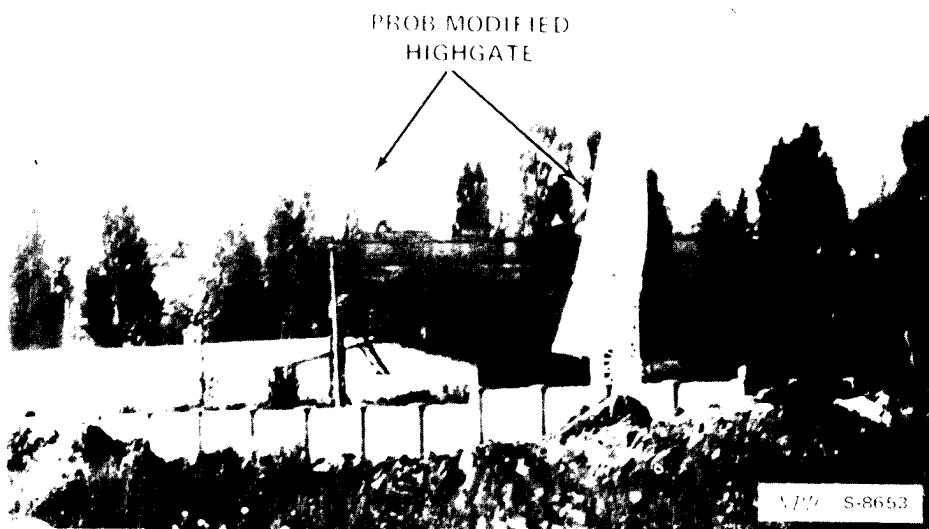


FIGURE 5. PROBABLE MODIFIED HIGHGATE RADARS, WARSZAWA RADAR WORKS T-1

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